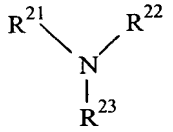
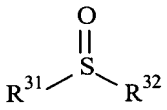
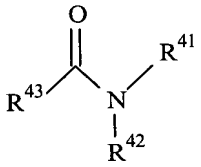
1. A photothermographic material comprising, on one side of a support, a photosensitive silver halide, a non-photosensitive silver salt of an organic acid, a reducing agent for silver ions and a binder, which is characterized by containing one or more o-polyphenol compounds;
and one or more compounds wherein all of said one or more compounds satisfy the following requirements A and B
A: the compound has a hydrogen bond formation rate constant K_f that is 20-4000,
B: the compound is represented by the following formula (II), (III), (IV) or (V), or the compound has a phosphoryl group:



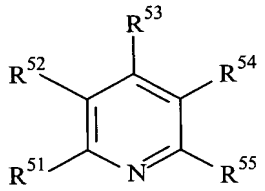
(II)



(III)



(IV)



(V)

wherein:

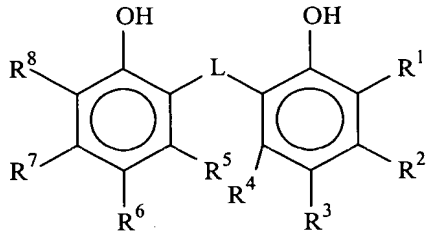
in the formula (II), R^{21} and R^{22} independently represent an alkyl group, and R^{23} represents an alkyl group, an aryl group or a heterocyclic group, and two or more of R^{21}, R^{22} and R^{23} may be taken together to form a ring;

in the formula (III), R^{31} and R^{32} independently represent an alkyl group, an aryl group, an aryl group or a heterocyclic group, and R^{31} and R^{32} may be taken together to form a ring;

in the formula(IV), R^{41} and R^{42} independently represent an alkyl group, an aryl group or a heterocyclic group, R^{43} represents an alkyl group, an aryl group, a heterocyclic group or N-(R^{44})(R^{45}) where R^{44} and R^{45} independently represent an alkyl group, an aryl group or a heterocyclic group, and two or more of R^{41}, R^{42}, R^{43}, R^{44} and R^{45} may be taken together to form a ring;

and in the formula (V), R^{51}, R^{52}, R^{53}, R^{54} and R^{55} independently represent a hydrogen atom or a substituent and two or more of R^{51}, R^{52}, R^{53}, R^{54} and R^{55} may be taken together to form a ring.

2. The photothermographic material according to claim 1, wherein at least one of the o-polyphenol compounds is represented by the following formula I



(I)

wherein R^2, R^4, R^5, and R^7 are hydrogen atoms, R^1 and R^8 represent an alkyl group and R^3 and R^6 represent an alkyl group, and L represents a group $-CHR^9-$ where R^9 represents a hydrogen atom, a methyl group, an ethyl group, an isopropyl group, an n-propyl group, a heptyl group, a 1-ethylpentyl group, and an undecyl group.

3. The photothermographic material according to claim 1 or 2, wherein the hydrogen bond formation rate constant Kf is 70 to 4000.

4. The photothermographic material according to claim 1 or 2, wherein the hydrogen bound formation rate constant Kf is 100-4000.

5. The photothermographic material according to claim 1 or 2, wherein the hydrogen bound formation rate constant Kf is 250-2000.

6. The photothermographic material according to claim 1 or 2, wherein the compound of the requirement B is represented by the formula (II).

7. The photothermographic material according to claim 1 or 2, wherein the compound of the requirement B is represented by the formula (III).

8. The photothermographic material according to claim 1 or 2, wherein the compound of the requirement B is represented by the formula (IV).

9. The photothermographic material according to claim 2, wherein the compound of the requirement B is represented by the formula (V).

10. The photothermographic material according to claim 1 or 2, wherein the amount of the o-polyphenol compound is 0.01-40 g/m^2.

11. The photothermographic material according to claim 1 or 2, wherein the amount of all of said one or more satisfy the requirement A and B is 0.01-40g/m^2.